



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

SWA15A-3-OH
Job Sheet 176050



Part No: SWA15A-3-OH

Job Qty: 1 ea

Part Name: Electric Swivel 15,000 lb Safe Work Load (6,818 kg)



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 4/16/18

Job Tracking No: RA202 - M274-01

Due Date: 4/27/18

Created By: Linda Lacelle

Type: Stock

Description:

Note: DWG SWA15A Rev 1 IPP Rev A 18.03.22 New issue DP Verify DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Start up Operation	1 Ea		4/19/18	0.00	0.00	Start Up Small Fab-4		
110	Small Fab	1 pcs		4/20/18	0.00	1.00	Small Fab-9		AP
120	QC	1 pcs		4/20/18	0.00	0.00	QC5		SB
130	Customer Acceptance	1 pcs		4/20/18	0.00	0.00	QC6		
140	Outsource	1 pcs		4/26/18			SKY002-VC	398/2 5	CX 18/05/10
150	Packaging	1 pcs		4/26/18	0.00	0.00	Packaging2		AP 18/05/10
160	QC	1 pcs		4/26/18	0.00	0.00	QC6		38
170	Small Fab	1 pcs		4/27/18	0.00	1.00	Small Fab-9		9-88 AP
180	QC	1 pcs		4/27/18	0.00	0.00	QC5		SB
185	DC	1 pcs		4/27/18	0.00	0.00	DC		SD
190	Packaging	1 pcs		4/27/18	0.00	0.00	Packaging3-2		DAG
200	QC21-FG	1 Ea		4/27/18	0.00	0.00	QC21		21 18-06-12

Part Op 110 - TEST ASSEMBLY. DISASSEMBLE ASSEMBLY. INSPECT DAMAGE PART.

Descriptions: 170 - RE-ASSEMBLE. ***All assembly to be done in accordance with manual*** TEST ASSEMBLY.

185 - Photocopy blue file and create labels



Container No: S061908



Part: SWA15A-3

Job No: 176050

Serial No/Batch: M274-01

Revision: 1

Inspector:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 813 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Date: 04/18/18

SAC
TS
SAC

0083 23

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
SWA15A-3-AR	Electric Swivel 15,000 lb Safe Work Load (6,818 Kg)	1 Ea (1 ea)	100-Start up Operation	
188-FPSS-1032-5/8	Set Screw	1 Ea (1 ea)	170-Small Fab	5037083
188-FSCS-1032-5/8	Wire Clamp Screw	4 Ea (4 ea)	170-Small Fab	5084588
600.1319	Up Decal	1 Ea (1 ea)	170-Small Fab	5086707 5037066
EL-PLUG-F	3-Prong Female Spade Plug	1 Ea (1 ea)	170-Small Fab	
EL-PLUG-M	3-Prong Male Spade Plug	1 Ea (1 ea)	170-Small Fab	
EL314-SJTOW	3 Wire	6 ft (6 ea)	170-Small Fab	5047767
SWA10A-1100	Upper DU Bearing	1 Ea (1 ea)	170-Small Fab	5060879
SWA10A-1200	Lower DU Bearing	1 Ea (1 ea)	170-Small Fab	5052897
SWA10A-1300	Roller Thrust Bearing	1 Ea (1 ea)	170-Small Fab	5047196
SWA10A-1400	Circlip	1 Ea (1 ea)	170-Small Fab	5047197
SWA10A-1800	Cover	1 Ea (1 ea)	170-Small Fab	
SWA10A-300	Bearing Housing	1 Ea (1 ea)	170-Small Fab	
SWA10A-400	Thrust Washer	1 Ea (1 ea)	170-Small Fab	5049990
SWA10A-500	Semi-Rings	1 Ea (1 ea)	170-Small Fab	
SWA10A-600	Collar	1 Ea (1 ea)	170-Small Fab	
SWA10A-700	Wire Clamp	2 Ea (2 ea)	170-Small Fab	5065254
SWA15A-100P	Lower End	1 pcs (1 ea)	170-Small Fab	
SWA15A-200P	Upper End Swivel	1 pcs (1 ea)	170-Small Fab	
SWA6A-1900	Female Spade Terminal - 1/4"	6 Ea (6 ea)	170-Small Fab	5054299
SWA6A-800B	Connector Bushing	1 Ea (1 ea)	170-Small Fab	5029420
SWA6A-900B	Rotary Contact	1 Ea (1 ea)	170-Small Fab	5049653

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Start up Operation	SWA15A-3	1	0	0
170-Small Fab	188-FPSS-1032-5/8	1	387	0
	188-FSCS-1032-5/8	4	192	0
	600.1319	1	246	0
	EL-PLUG-F	1	38	0
	EL-PLUG-M	1	52	0
	EL314-SJTOW	6	1,073	0
	SWA10A-1100	1	20	0
	SWA10A-1200	1	22	0
	SWA10A-1300	1	25	0
	SWA10A-1400	1	40	0
	SWA10A-1800	1	8	0
	SWA10A-300	1	8	0
	SWA10A-400	1	19	0
	SWA10A-500	1	0	0
	SWA10A-600	1	10	0
	SWA10A-700	2	18	0
	SWA15A-100P	1	10	0
	SWA15A-200P	1	10	0
	SWA6A-1900	6	292	0
	SWA6A-800B	1	0	0
	SWA6A-900B	1	3	0

Part Specifications

Specifications could not be found.

Inspection Sheet Complete

RA202

Customer QA Ref #

0

Part Number	Batch / Serial #	Quantity	Part Complete	Rev/CHG Current	New Paperwork	New Labels	Disposition	Work order #	Work order instructions
SWA15A-3	M274-01	1	☐ yes	☐ yes	☐ yes	☐ yes	CUSTOMER SUPPLIED		Customer supplied part. Customer sending SWA15A-3 serial# M274-01 for overhaul. Preform overhaul as per manual and record finding as per test sheet. Return to customer.
SWA15A-3	M907-01	1	☐ yes	☐ yes	☐ yes	☐ yes	CUSTOMER SUPPLIED		Customer supplied part. Customer sending SWA15A-3 serial# M907-01 for overhaul. Preform overhaul as per manual and record finding as per test sheet. Return to customer.
0		#VALUE!	☐ yes	☐ yes	☐ yes	☐ yes			
0		#VALUE!	☐ yes	☐ yes	☐ yes	☐ yes			
0		#VALUE!	☐ yes	☐ yes	☐ yes	☐ yes			
0		#VALUE!	☐ yes	☐ yes	☐ yes	☐ yes			

QC Approval: P.D.

Date: 13-Apr-18

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO039812**

Supplier: SKY002-VC
Skyservice
6120 Midfield Road
Mississauga
ON
L5P 1B1 Canada
Phone: 905-678-5636
Fax: 905-678-5841

PO No: PO039812
PO Date: 5/7/18
Due Date: 5/10/18
Purchase Order Revision:
Revision Date:
Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground
Pynt Terms: Net 30
Freight Terms:
Special Comments:

Items

Line Item	Job	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	174297	D4464-041	Fuel Tank Assembly ISSUE P/O : LIQUID PENETRANT INSPECTION AS PER QSI 038 OR LPI AS PER ASTM 1417 LEVEL 2	Firmed	5/10/18	1 pcs	0 pcs ✓ 1x	1 pcs	\$234.00/pcs	\$234.00
2	176652	D212-664-101	Fwd Crosstube - High *** WEAR LATEX GLOVES WHEN HANDLING CROSSTUBE*** Liquid Penetrant Inspection as per QSI 038 LPI as per ASTM 1417 Level 2 Attach copy of NDT results to work order.	Firmed	5/10/18	1 pcs	0 pcs ✓ 1x	1 pcs	\$224.00/pcs	\$224.00
	176653			Firmed	5/10/18	1 pcs	0 pcs ✓ 1x	1 pcs	\$224.00/pcs	\$224.00
	176654			Firmed	5/10/18	1 pcs	0 pcs ✓ 1x	1 pcs	\$224.00/pcs	\$224.00
	176655			Firmed	5/10/18	1 pcs	0 pcs ✓ 1x	1 pcs	\$224.00/pcs	\$224.00
Sub Total:						4	0	4		\$896.00
3	176291	SWA6A-2-OH	Electric Swivel 6,000 lb Safe Work Load (2,721 kg)	Firmed	5/10/18	1 pcs	0 pcs ✓ 1x	1 pcs	\$89.00/pcs	\$89.00
4	176051	SWA15A-3-OH	Electric Swivel 15,000 lb Safe Work Load (6,818 kg)	Firmed	5/10/18	1 pcs	0 pcs ✓ 1x	1 pcs	\$89.00/pcs	\$89.00
5	176050	SWA15A-3-OH	Electric Swivel 15,000 lb Safe Work Load (6,818 kg)	Firmed	5/10/18	1 pcs	0 pcs ✓ 1x	1 pcs	\$89.00/pcs	\$89.00
6	176762	SWA6A-4-OH	Electric Swivel 6,000 lb Safe Work Load (2,721 kg)	Firmed	5/10/18	1 pcs	0 pcs ✓ 1x	1 pcs	\$89.00/pcs	\$89.00
Grand Total:										\$1,486.00

Order Notes

reid AT 18/05/18



skyservice Work Order Traveler

Sky Service F.B.O. Inc.

10105 Ryan Avenue, Dorval, Quebec, H9P 1A2

TCCA AMO 53-89 / EASA 145.7142 / BDA AMO 385

WO #: MWO35939	Customer: Dart Aerospace Ltd.	Dept: NDT YUL	Reference: PO039812
Descr:	PN:	S/N:	Qty: 1
Make:	Model:	Reg:	A/C S/N:
TSN:	CSN:	TSO:	
Task: UNSCHEDULED			Sequence: 1

Work Required:

CARRY OUT NDT ON:

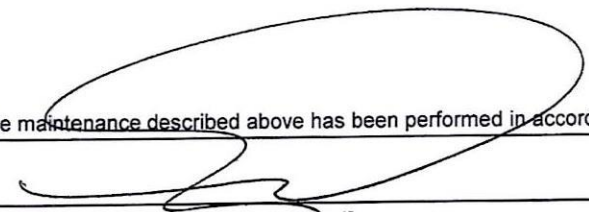
2 ELECTRIC SWIVEL (12 PARTS), P/N# SWA15A-3-OH , J/S# 176050 , 176051

1 ELECTRIC SWIVEL (5 PARTS), P/N SWA6A-4-OH , J/S# 176762

1 ELECTRIC SWIVEL (6 PARTS), P/N SWA6A-2-OH , J/S# 176291

Action Taken:						Date:	Initial/Stamp:
MPI C/O IAW ASTM E-1444M-12 DE-MAGNETIZED AS PER ASTM E-144494-A ***NO CRACK FOUND*** MAGBENCH S/N 208123 CAL DUE: 23-JUL-2018 POWDER 14A BATCH# MPO13600 CARRIER II BATCH# MPO20165						MAY 07 2018	 
Description	Location	P/N	Qty	Batch	S/N Off	S/N On	
						DAS 33	
						9-88	

I certified that the maintenance described above has been performed in accordance with the applicable standard of airworthiness.

Signature: 	ACA/SCA Stamp 	Date: MAY 07 2018
Name: RAFIK MELIKYAN		



VIH Helicopters Ltd

1962 Canso Road
North Saanich, BC V8L 5V5
Canada

PURCHASE ORDER

Date	PO Number
Jan. 31, 2018	9301713

VENDOR
Dart Aerospace

Ship To
VIH Helicopters Ltd. Attention: 1962 Canso Road North Saanich, BC V8L 5V5 CANADA

If Credit card is to be utilized for purchase payment,
supply credit card number under separate cover.

VIH Project Code:		
Terms	Delivery Date	Ship Via

Description	Qty	Rate	Amount
Overhaul/Inspection on Electric Swivels			
M274-01	1		
Parts beyond standard overhaul: SWA10A-700	2	\$ 50.00	\$ 100.00
S/N's: M907-01	1		
Parts beyond standard overhaul: SWA10A-700	2	\$ 50.00	\$ 100.00
SWA6A-900B	1	\$ 326.00	\$ 326.00
EL-PLUG-F	1	\$ 25.00	\$ 25.00
EL-PLUG-M	1	\$ 100.00	\$ 100.00
Supplier: Any changes to this PO must be in writing please email Invoice to accountspayable@vih.com A completed copy of this PO must be supplied to vendor			
Taxes and shipping are additional to total			

Signed: Max Nelson

Currency	USD
Total	\$ 651.00

Work Order 176050

Customer _____

Number of Wires 3Date June 12 2018Serial Number M274-01

Number of Cycles	Load (Lbs.)	Action	Pass/Fail
1	15,000	Check for Conductivity against all wires.	Pass
1	15,000	Check all wires for grounding against swivel body.	Pass
1	10,000	Check for Conductivity against all wires.	Pass
1	10,000	Check all wires for grounding against swivel body.	Pass.
1	5,000	Check for Conductivity against all wires.	Pass
1	5,000	Check all wires for grounding against swivel body.	Pass
1	0	Check for Conductivity against all wires.	Pass
1	0	Check all wires for grounding against swivel body.	Pass

Test Conducted By: Luc Lariviere
TechnicianSignature: Sylvie Boucher
QC 5 Small FAB / QA

Submit